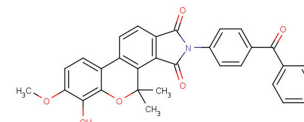


Ampkinone

Chemical Properties

CAS No.:	1233082-79-5
Formula:	C ₃₁ H ₂₃ NO ₆
Molecular Weight:	505.52
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Ampkinone is an indirect AMPK activator.
Targets(IC ₅₀)	AMPK: None
In vitro	Ampkinone-mediated activation of AMPK requires the activity of LKB1 and results in increased glucose uptake in muscle cells. Ampkinone stimulates the phosphorylation of AMPK via the indirect activation of AMPK in various cell lines.
In vivo	Ampkinone-treated DIO mice significantly reduce total body weight and overall fat mass. Ampkinone effectively improves metabolic abnormalities in the DIO mice model.

Solubility Information

Solubility	DMSO: 50 mg/mL (98.91 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.978 mL	9.891 mL	19.782 mL
5 mM	0.396 mL	1.978 mL	3.956 mL
10 mM	0.198 mL	0.989 mL	1.978 mL
50 mM	0.04 mL	0.198 mL	0.396 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Oh S, et al. Antidiabetic and antiobesity effects of Ampkinone (6f), a novel small molecule activator of AMP-activated protein kinase. *J Med Chem.* 2010 Oct 28;53(20):7405-13.

Inhibitors · Natural Compounds · Compound Libraries

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